PINADZHYAN, V.V.; INDZHIKTAN. Ya A.

Deformation of plastic steel under the combined effect of stretching and torsion. Izv.AN Arm. SSR. Ser. tekh. nauk. 12 no.1:53-56 '59. (NIRA 12:4)

1. Institut stroymaterialov i soorusheniy Ministerstva stroitel - stva Arm. SSR.

(Steel--Testing)

(Deformation (Mechanics))

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610015-

INFRBATEV, M.S.

Errors of the method of difference for second-order elliptic equations. Vest. AN Kazakh. SSR 19 no.11:93-96 Nº63.. (MIRA 17:5)

INERBAYEV, M.S.

Errors of difference solutions to the second and third boundary value problems for elliptic equations. Metod. vych. no.2:50-59 *63. (MIRA 18:11)

INES, Z.

New safety measures for high-tension electric cable network in mines. p. 115.

PRZEGIAD GORNICZY. Stowarzyszenie Naukowo-Techniczne Inzymierow i Technikow Gornictwa. Katowice, Poland, Vol. 15, No. 3, March, 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 8, No. 9, September, 1959. Uncl.

5/271/63/000/003/012/ A060/1126

AUTHORS:

Avraamov, I.S., Ineshin, A.P.

TITLE:

Engineering logic and the automation of production

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhurika i vychislitel naya tekhnika, no. 3, 1963, 55, abstract 3A312 (Uch. sap. Tomskiy un-t,

1962, no. 41, 156 - 170)

The authors describe a digital servosystem designed for controlling TEXT: a large class of rachanisms connected with the displacement and precise stopping at various points. To such mechanisms belongs: factory grames, pressure units of rolling mills, mine elevators, ingot cars, etc. The system contains a memory unit for the coordinates of the exact technical stopping point, a memony unit; of the current position of mechanisms, a feedback transducer and computer unit. With the aid of the methods of the algebra of logic a reliabile computer metwork is worked out. The reliability of its operation is attained through the application of a reflecting code, the introduction of DC feedbacks and of stabilizing networks which protect the flip-flops from pulse noise. There are 9 figures and

Card 1/2

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Engineering logic	and the au	itomation of p	roduction	3/271/6 4060/41	53/000/003/ .26	(a) 2/(v	(4)
4 references.							
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Card 2/2							

EMT(d)/EmP(v)/EMP(h)/EMP(l) i. 05410-67 SOURCE CODE: UR/2563/65/000/259/0107/0114 ACC NRI AT6022758 AUTHOR: Drannikov, V. G.; Yesin, A. I.; Ineshin, A. P.; Sevast'yanov, V. A. ORG: None TITLE: Analysis of the dynamics of a self-saturating magamp drive with intermediate

semiconductor amplifiers

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 259, 1965. Perekhodnyye protsessy v avtomatizirovannom elektroprivode (Transient processes in automated electric drive), 107-114

TOPIC TAGS: magnetic amplifier, machine tool, industrial automation

ABSTRACT: The authors consider the use of intermediate semiconductor amplifiers as a means for reducing the time constant in self-saturating magnetic-amplifier circuits used in combination with electric motors for driving the feed screws of machine tools. An analysis of transition processes in this type of system shows that linear operation of the intermediate semiconductor amplifier in self-saturating magamp-motor drive combinations has no noticeable effect on the time constant of the drive. The interference voltage acting through the correction circuit in an actual drive puts the intermediate amplifier into conditions of artificial switching with a frequency of 300 cps which increases the time of the transition process by a factor of more than 1.5. Class D

Card 1/2

CIA-RDP86-00513R00061861001

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ACC NR: AT6022758

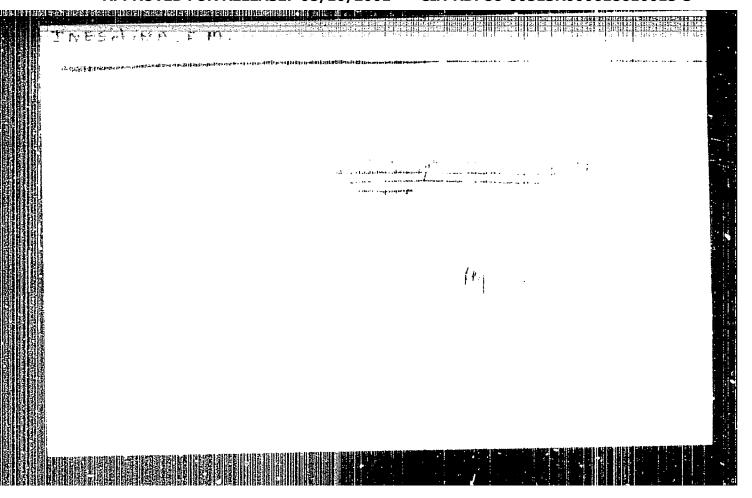
intermediate semiconductor rectifiers with pdm may be used satisfactorily for widerange control in self-saturating magamp drives. The small losses in the output transistor of the amplifier in both the open and closed states result in considerable
power delivery at high efficiency to the control circuits of the magnetic amplifier.
The operation of this transistor is nearly independent of the scatter in its parameters and variations in ambinet temperature. The frequency of the intermediate amplifier must be selected with regard to the particular features of the specific magnetic amplifier circuit. The use of low-interference stabilization circuits in conjunction with high-power class D intermediate semiconductor amplifiers provides highquality drives for wide-range speed control based on self-saturating magnetic amplifier circuits. Orig. art. has: 5 figures, 2 formulas.

SUB CODE: 09, 13/ SUBM DATE: None/ ORIG. REF: 005

Card 2/2 -14

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610015-3



NESHINA, 1-11.

Category: USSR/Analytical Chemistry - General Questions.

G-1

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30945

Author : Ginzburg V. L., Alekseyenko Ye. F., Belokrinitakaya Ye. Ye.,

Vitushkina I. N., Incshina F. M.

Inst: : not given

Title : Accuracy of Photographic Methods of Spectral Analysis

Orig Pub: Zavod. laboratoriya, 1956, 22, No 11, 1331-1333

Abstract: A comparison was made of the accuracy of analyses of fused nickel, copper regulus, fused cobalt and cathodic nickel, according to calibration graphs in \triangle S, lg C coordinates, and in accordance with the solid graph method. Determinations were made of Cu, Fe, Au, Pt, Pd, Ni, Si, Mn, Pb, Sb, Bi, Sn, Co, at concentrations from several thousandth to decimal fractions of one percent, with spectrum excitation in arc discharge of direct and alternating current, and photographic recording on plates of type I, II and III. In most instances no substantial differences were found in the magnitude of errors with different calibration graphs.

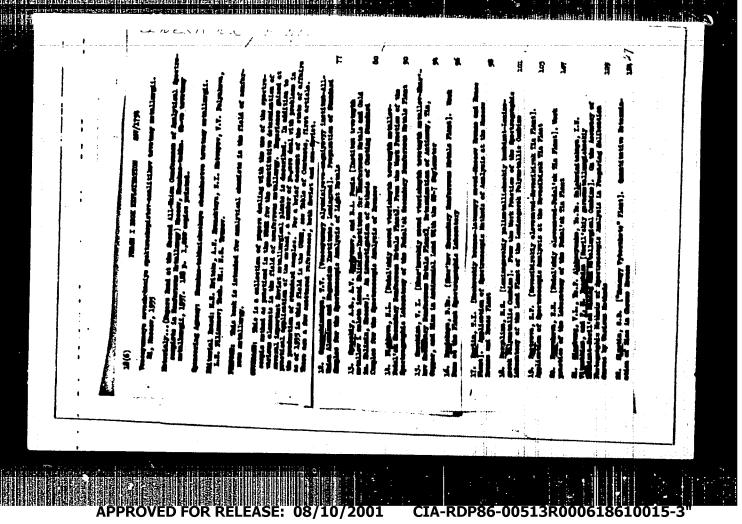
Card : 1/1

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PHASE I BOOK EXPLOITATION

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Gurvich, Lev Veniaminovich, Georgiy Akopovich Khachkuruzov, Vadim Andreyevich Medvedev, Inessa Veniaminovna Veyts, Georgiy Andreyevich Bergman, Vladimir Stepanovich Yungman, Nina Petrovna Rtishcheva, Lidiya Fedorovna Kuratova, Georgiy Nikolayevich Yurkov, Amaliya Abramovna Kane, Boris Fedorovich Yudan, Boris Isidorovich Brounshteyn, Viktor Feodoseyevich Baybuz, Valeriy Aleksandrovich Kvlividze, Yevgeniy Aleksandrovich Prozorovskiy, and Boris Aleksandrovich Vorob'yev.

Termodinamicheskiye svoystva individual'nykh veshchestv; spravochnik v dvukh tomakh. tom 1: Vychisleniye termodinamicheskikh svoystv; tom 2: Tablitsy termodinamicheskikh svoystv (Thermodynamic Properties of Individual Substances; Reference Book in Two Volumes. v. 1: Calculation of Thermodynamic Properties; v. 2: Tables of Thermodynamic Properties). 2d ed., rev. and enl. Moscow, Izd-vo AN SSSR, 1962. 1161 and 916 p. 4000 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut goryuchikh iskopayemykh; and Gosudarstvennyy komitet Soveta Ministrov SSSR Card 1/9/2

po khimii. Institut prikladnoy khimii.

ARREST COLOR DE LA COLOR DE LA

Resp. Ed.: V. P. Glushko, Academician, L. V. Gurvich, G. A. Khach-kuruzov, I. V. Veyts, and V. A. Medvedev; Ed. of Publishing House: K. P. Gurov; Tech. Ed.: V. G. Laut.

PURPOSE: This reference book may be used in scientific-research and experimental-design work in institutes, design offices, and schools of higher education, as well as for training specialists in chemical thermodynamics and thermal physics.

COVERAGE: Volume 1 of this work deals with methods for calculating thermodynamic properties and with the selection of constants required for the calculations. Volume 2 contains tables of thermodynamic properties (reduced thermodynamic potential, entropy, enthalpy, and the logarithm of the dissociation or ionization constants of equilibrium) compiled, where data were lacking, on the basis of published and unpublished material from a number of Soviet research institutes. Thermodynamic properties for the ideal gas

Card 2/9/3

Thermodynamic Properties (Cont.)

SOV/6260

state are presented in table form for 335 gases, 44 liquids, and 45 solids compounded from 33 chemical elements and their isotopes, viz.: H, D, T, He, Li, Be, B, C, N, O, F, Ne, Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca, Br, Kr, Re, Sr, Zr, I, Xe, Cs, Ba, Hg, and Pb. Thermodynamic properties are given for the following 22 gases in the range from room temperature to 20,000 K: H,H', H', O, O', He, O', Os, OH, OH', HeO, N, N', Na, No, NO, NO', C, C', CO, CO', and maining 299 gases up to 6000 K. Virial coefficients for 34 gases are also given up to 6000 K.

TABLE OF CONTENTS (Volume 1) [Abridged]:

Foreword

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PART I. METHODS OF CALCULATING THE THERMODYNAMIC PROPERTIES OF INDIVIDUAL SUBSTANCES

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INEV, V.

INEV, V. Improving the technological work in shunting is an important condition for reducing the stopover of the railroad cars. p. 8. Vol. 8, no. 6, 1956. TRANSPORTNO DELO. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4-April 1957

INFANT'YEV, A.A., gornyy inzh., MUTROFANOV, A.I., gornyy inzh.

Experience in desp drainage at the Yakovleve mine in the Kursk
Magnetic Anomaly. Gor. zhur. no.il.;16-22 N '63.

1. Yakovlevskiy rudnik Kurskoy magnitnoy anomalii.

(MIRA 17:6)

18(5),14(5)

AUTHORS:

SOV/127-59-2-3/21 Gusev, A.M., Red'ko, L.A., and Infant'yev, A.N.

Mining Engineers

TITLE:

Preliminary Considerations Concerning the Methods of Opening, and Ways of Mining in the Yakovleveloye Deposit Area (Proyektnyye soobrazheniya o metodakh vskrytiya i sposobakh razrabotki Yakovlevskogo mesto-

PERIODICAL:

Gornyy zhurnal, 1959, Nr 2, pp 10-15 (USSR)

ABSTRACT:

The authors first give a concise description of the Yakovlevskoye and Pokrovskoye iron ore deposits. Takovlevskoye ore stratus nov being executed is 10 km long, about 220 m wide. Its thickness varies

from a few meters to 350 m and it has about 1,500 million tons of 61.4% rich iron-ore. There are 6 wet strata which will give 5,000 to 6,000 cu m of water per hour when actual exploitation start. The authors say that the scheduled annual output is 15 million tons of ore. The mean exploitation coefficient will be 20.2 t/m²/year. The floors will sink

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610015-3

507/127-59-2-3/21

Preliminary Considerations Concerning the Methods of Opening, and Ways of Mining in the Yekovlevskoye Deposit Area 10

> by about 6.9 m per year. The deposits will be exhausted in about 50 years. The authors defend the plans and advice of the Yuzhgiproruda Institute as opposed to the projects elaborated by the Institut gornogo dela AN SSSR (Institute of Mining attached to the Soviet Academy of Sciences). They especially argue against adapting the one-shaft-complex plan advocated by the Academy of Sciences. The proposed floor height is 70 to 80 m. The first 40% of the ore deposits are to be mined within 25 years, the next 27% within a further 14 years. A description and illustration of the actual preparatory work in the mines follows. Miner's trucks run by electric motors will each have 25 tons capacity. As far as the actual exploitation is concerned, the authors particularly recommend the self-collapsing floor system. Drainage operations will be carried out in 3 stages: deep-working pumps will first discard the pressure

Card 2/3

SOV/127-59-2-3/21

Preliminary Considerations Concerning the Methods of Opening, and Ways of Mining in the Yelevlevekey Deposit Area

of the subsoil waters; 2) a ring of drain shafts and galleries will be cut around the carbon limestone stratum; 3) then the ore layers will be drained. The floors placed at the bottom of the deposit must be equipped with a pumping system delivering 100 or 200 cu m of water per hour. There are 3

ASSOCIATION: Yuzhgiproruda, Khar'kov

Card 3/3

MASHKET, K.M., inzh; INFANT*YEV, A.N., inzh.

Huge mine in the Kursk Magnetic Anomaly. Shakht. stroi.

5 no.5:6-8 My *61. (MIRA 14:6)

1. Goestroy SSR (for Mashket). 2. Yakovlevskiy rudnik Kurskoy magnithoy anomalii (for Infant'yev).

(Kursk Magnetic Anomaly.—Iron mines and mining)

INFANTIYEV, A.N., inch.

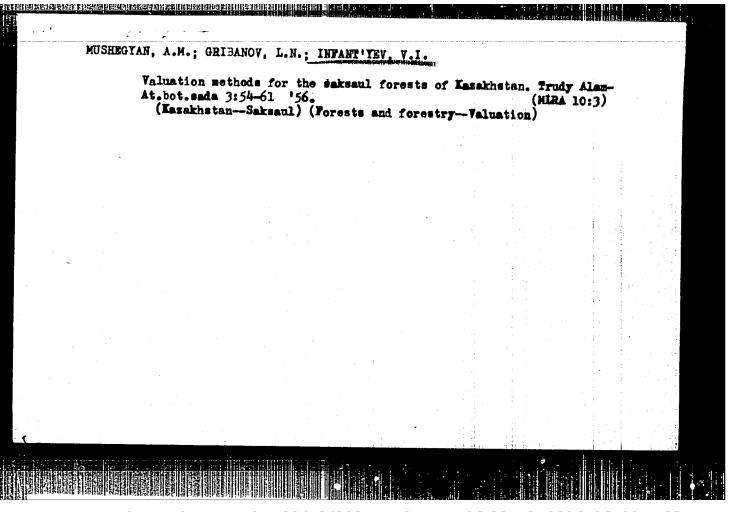
Questions of principle in opening thick, deep-lying deposits of rich iron ores in the Kursk Magnetic Anomaly. Izv.vys.ucheb.zav.;gor.zhur. 7 no.7:23-27 164. (MIRA 17:10)

l. Yakovlevskiy rudnik Belgorodskoy oblasti. Hekomendovana kafedroy razrabotki rudnykh mestorozhdeniy Instituta gornogo dela.

IMENITOV, V.R., prof., doktor tekhn. nauk; CHIAYEV, T.I., gornyy inzh.; INFANT'YEV, A.N.

Investigating the behavior of sand and clay depositions in the mining of iron ore deposits in the Kursk Magnetic Anomaly. Gor. zhur. no.9:22-23 S *64. (MIRA 17:12)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for Imenitov, Chiayev). 2. Direktor Yakovlevskogo rudnika Kurskoy magnitnoy anomalii (for Infant'yev).



INFANT'YEV, VI. I. Cand Agr Sci -- (diss) "Types of apple tree plantings in the Dzhunfar Ala-Tau , their natural restoration, growth, and productivity." Alma-Ata, 1957. 18 pp; Almittable 19 cm. (Min of Agr USSR. Kazakh State Agr Inst). 100 copies. (KL, 22-57, 106).

-26-

INFANT YEV, VI

USSR / Forestry. Dendrology.

K-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24877.

Author : Mushegyan, A. M.; Gribanov, L. N.; Infantlev, V.I.

Inst : Not given.

Title : On the Methods of Forest Valuation of the Haloxy-

lons of Kazakhstan.

Orig Pub: Lesn. kh-vo, 1957, No 8, 33-36.

Abstract: The exceptionally and increasingly difficult determination of the usual forest valuation indices of haloxylons is pointed out. It is proposed to divide the plantings into the following age groups: saplings, those ripening and those ripe. The criteria of the plantings of the black haloxylons ought to be established according to the proposed local table of the criteria, compiled on the basis of 120 test areas. A table to determine reserves

Card 1/2

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610015-3"

USSR / Forestry. Dendrology.

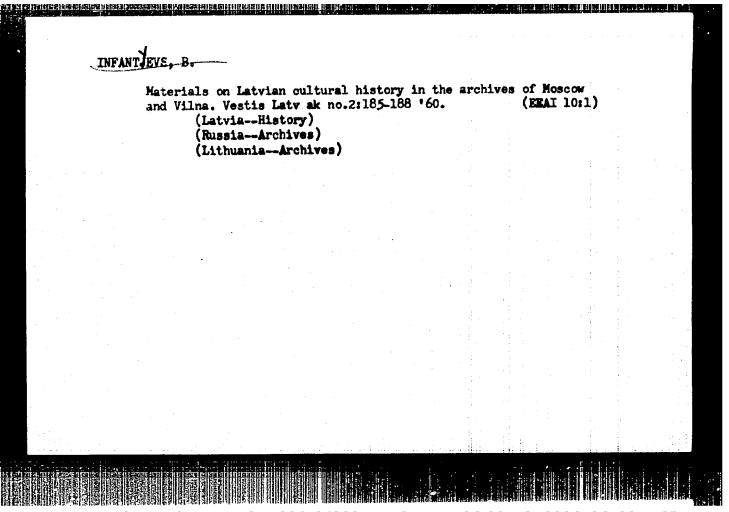
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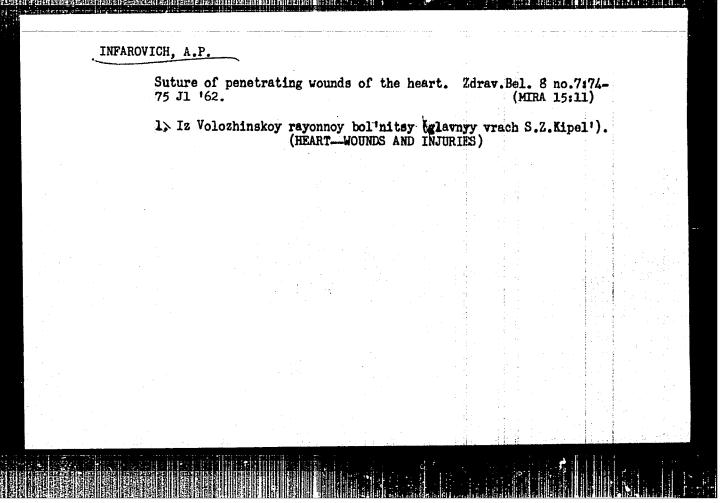
Abs Jour: Ref Zhur-Biol., No 6, 1958, 24877.

Abstract: of the haloxylon plantings according to the criteria, the average diameter at the surface of the ground and the degree of denseness of the plantings, is suggested.

Card 2/2

KARKLINS, J.; LIEPA, E.; INFANT EVS, B. Latvijas Valsts universitates Zinatniskie raksti (Transactions of the Latvian State University); a review of Vols. 11-16. Vestis latv ak no.9:191-196 '99. (EEAI 9:10) (Latvian periodicals) (Academy of Sciences of the Latvian 5.S.R.)

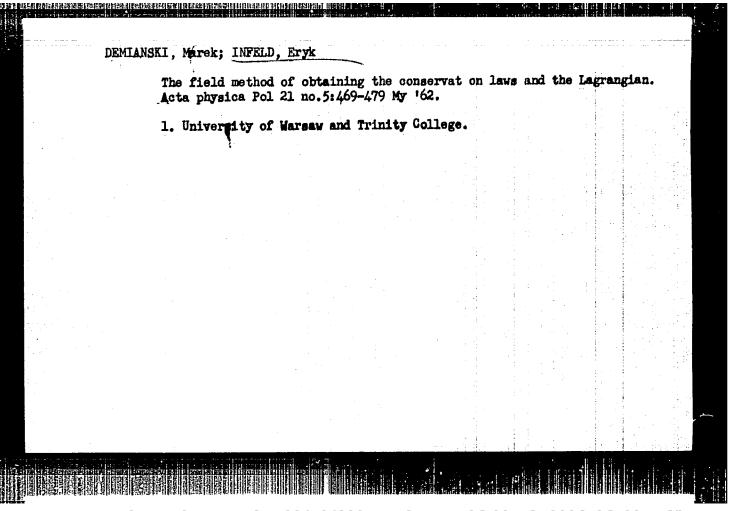




DEMIANSKI, M.; F INFELD, E.

Wote on the field method of obtaining the conservation laws and solving the two body problem in general relativity. Bul Ac Pol Mat 9 no.9:693-696 '61.

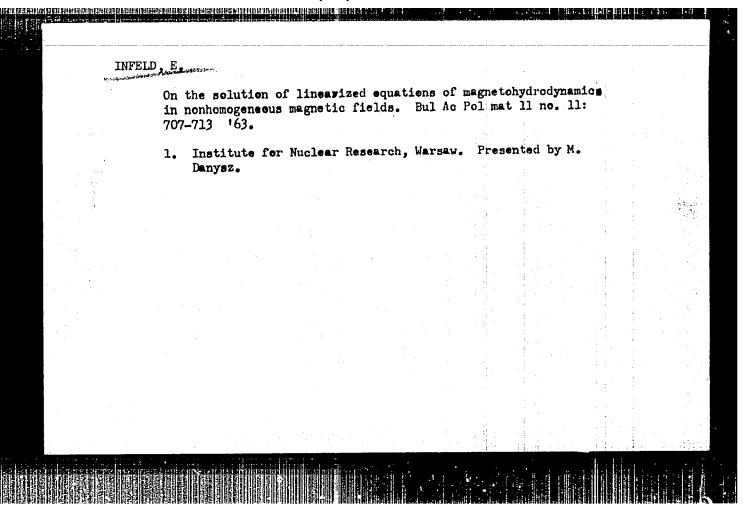
1. Institute of Theoretical Physics, University, Warsaw and Trinity College, Cambridge. Presented by L.Infeld.



DEMIANSKI, M.; INFELD, E.

The radiative energy and the motion of particles. Bul Ac Pol mat 11 no.4:223-226 '63.

1. Institute of Physica, University, Warsaw, and Institute for Nuclear Research, Warsaw. Presented by L. Infeld.



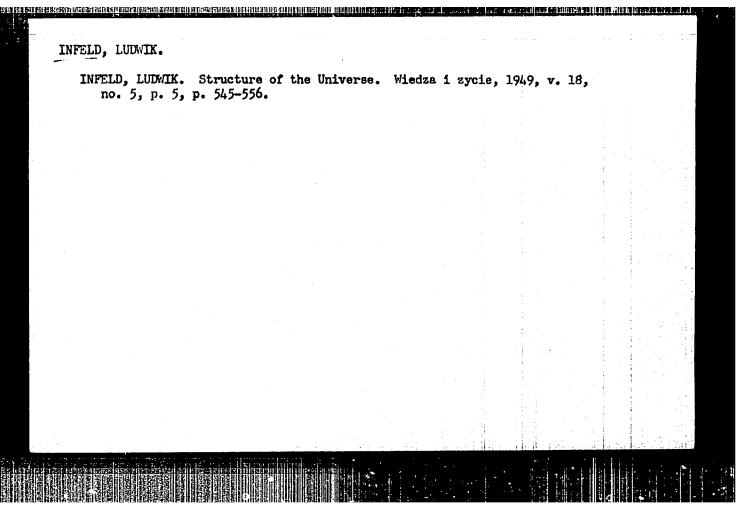
INFID, E. Some exact solutions of the equations of magnetohydrodynamics for magnetic plane-symmetrical fields. Bul Ac Fol mat 12 no.4: 233-238 '64. 1. Institute of Nuclear Research, Warsaw. Presented by M. Danysz.

INFELD, Leopold The equations of motion in general relativity theory and the action principle. Acta physica Pol 16 no.3:177-210 "57. 1. Instytut Fizyki, Polska Akademia Nauk, Warszawa.

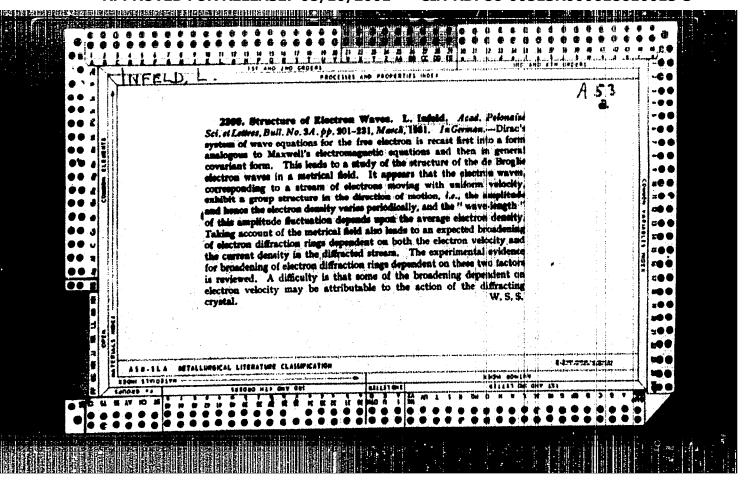
INFELD, Leopold

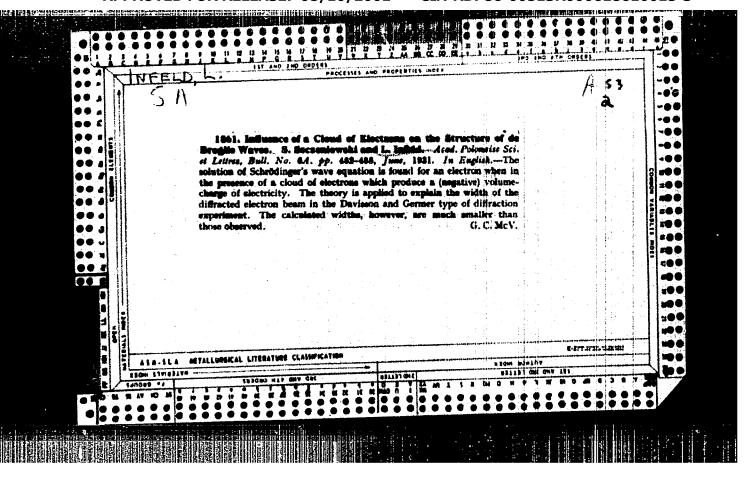
On studies of young scholars abroad. Nauka polska 10 no.3:91-93 My-Je 162.

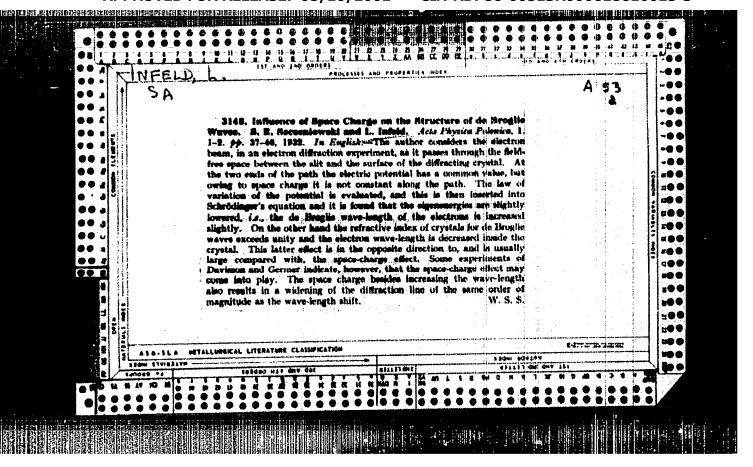
Czlonek rzeczywisty Polskiej Akademii Nauk, Warszawa.

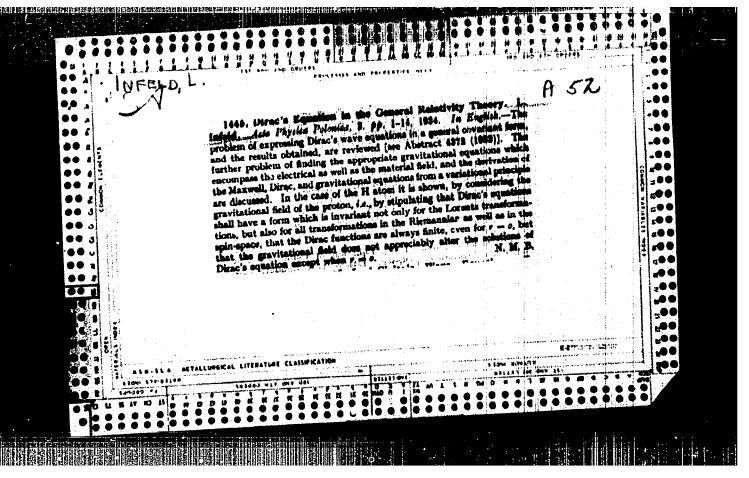


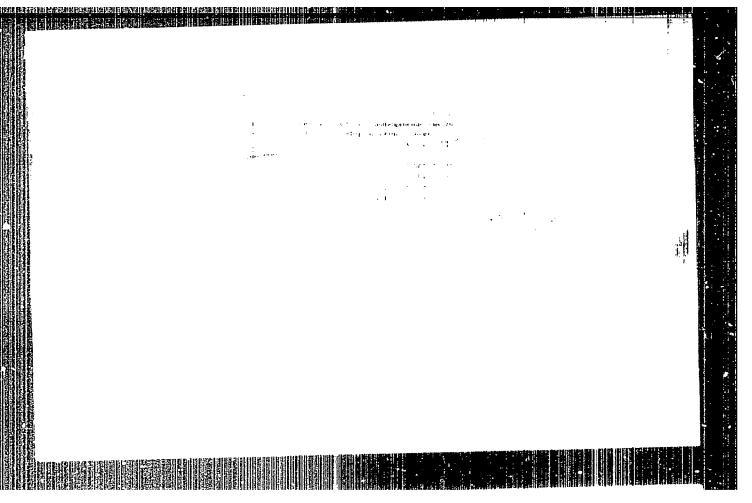
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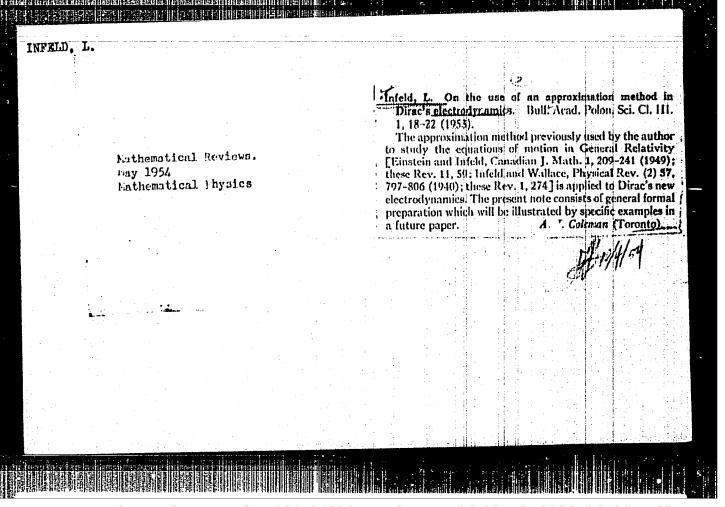


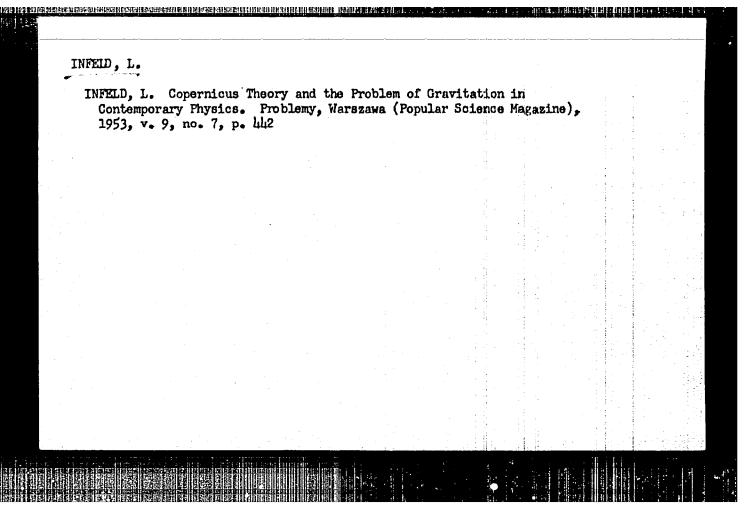




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Inteld, Poland/Theoretical Physics - Quantum Electrodynamics

B-5

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33764

Author: Infeld, L., Plebanski, J.

Institution: University of Warsaw

Title : Electrodynamics Without Potentials

Original

Periodical: Acta Phys. Polon., 1953, 12, No 2, 123-134, English

Abstract : A general scheme was obtained for formulating a single theory of

the electromagnetic field, characterized by an antisymmetric tengor $p_{\alpha,\beta}$ (interpreted as D and H) The simplest vector in this case will be $p_{\beta}^{\alpha}=(4\pi/c)j^{\alpha}$. This equation is considered as a definition for the current. The Lagragian function H is considered in general as being dependent on the invariant P=-1/4 $p_{\mu\beta}$ $p_{\nu}^{\mu\nu}$ and on the quantity $\rho=k(g_{\mu\beta}$ $p_{\nu}^{\alpha\nu})$ $p_{\mu\nu}^{\beta\mu}$) $p_{\mu\nu}^{\beta\mu}$ where k is some constant. The variational principle leads to

a field equation

Card 1/2

Poland/Theoretical Physics - Quantum Electrodynamics

B-5

Abst Journal: Referat Zhur - Pizika, No 12, 1956, 33764

where $f_{\alpha\beta}=-2\partial H/\partial p^{\alpha\beta}$ is interpreted as the vectors E and B, while $A_{\alpha}=(c/4\pi)\ \partial H/\partial j^{\alpha}$ is considered to be the potential resulting from the theory. The energy-momentum tensor has the form

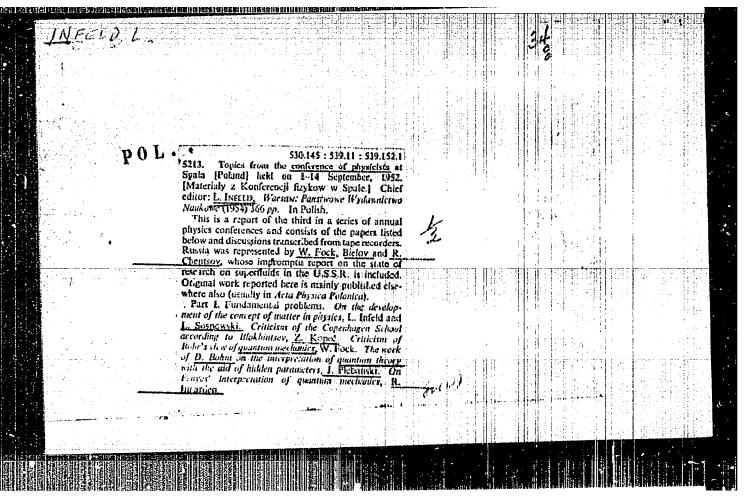
 $T_{\beta}^{\alpha} = 1/4[(H + 1/2 p^{\nu\mu} 1_{\nu\mu})\delta_{\beta}^{\alpha} - p^{\alpha\nu} 1_{\beta\nu}] + (1/c)[A_{\beta}j^{\alpha} - A_{\nu}j^{\nu}\delta_{\beta}^{\alpha}],$

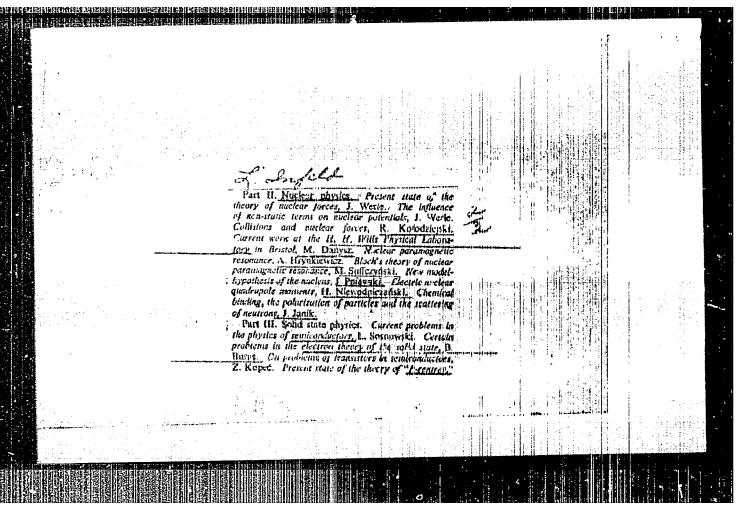
which satisfies the equation $T_{\alpha\beta}^{\alpha}=0$; all these quantities should be expressed in terms of $P_{\alpha\beta}$ and their derivatives. It is shown that the proposed "Electrodynamics Without Potentials" is equivalent to the electrodynamics by Mie (Mie, G., Ann. Phys., 1912, 37, 511) in which the potentials are principal quantities. However, though the new Dirac electrodynamics can be formulated "without potentials" (Lagrangian $P + \rho/c$), it is outside the scope of the Mie electrodynamics.

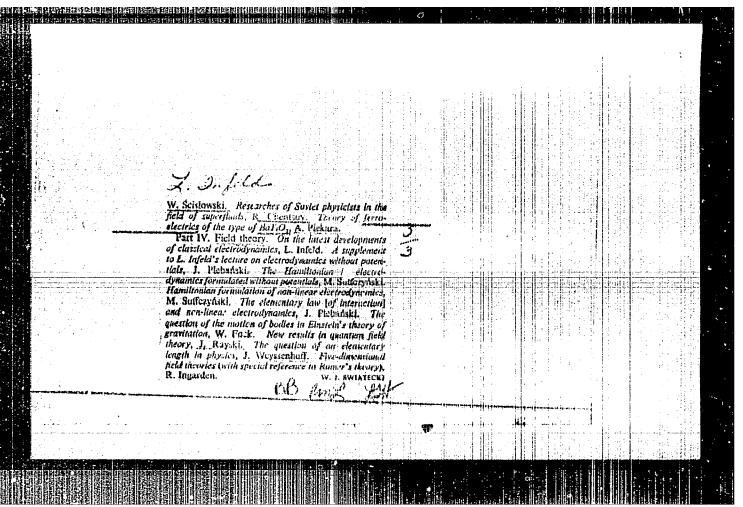
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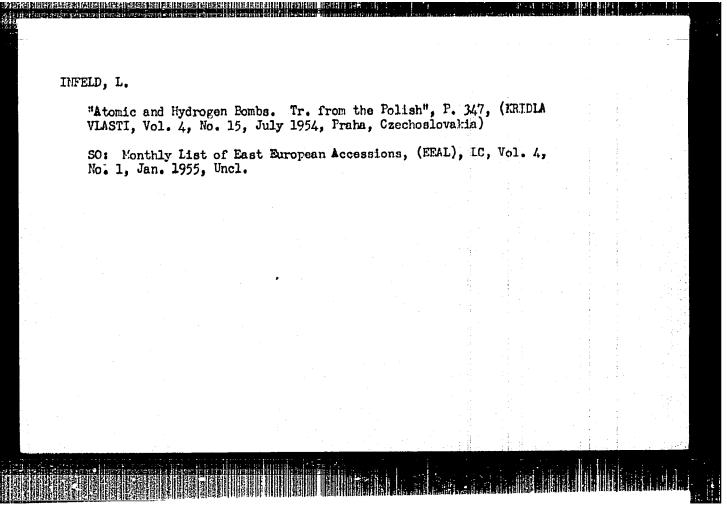
INFELD, L.

"Equations of Motion and Monharmonic Coordinate Conditions," Byul, Polskoy akad. nauk, otd. 3,2, No 4, pp 161-164, 1954

The role of coordinate conditions in derivation of equations of motion of masses in a weak gravitational field is clarified. A transformation of coordinates, changing the field into a strong one, is always possible. The Newtonion equation of motion may be obtained from Einstein's equation as a first approximation, provided the gravitational field is weak and the motion quasistationary. (RZhFiz, No 6, 1955)

Sum. No. 681, 7 Oct 55

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INFELD, L.

Einstein; reminiscent sketches, p. 349. (POSTEPY FIZYKI, Warszawa, Vol. 5, no. 3, 1954.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan. 1955, Uncl.

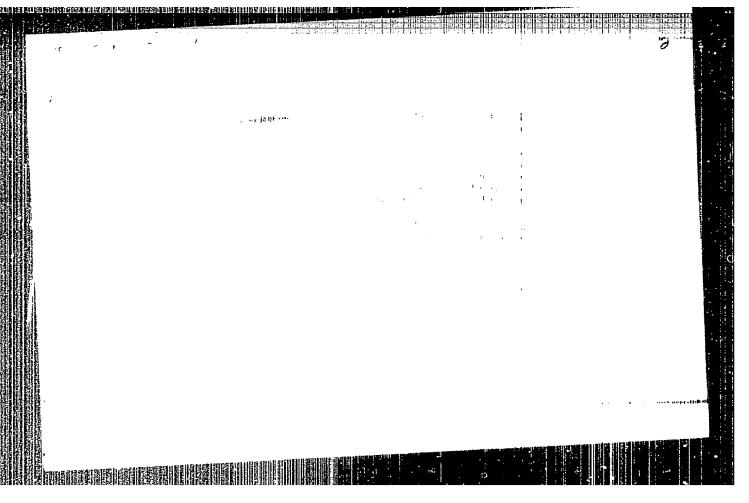
INFELD, L.

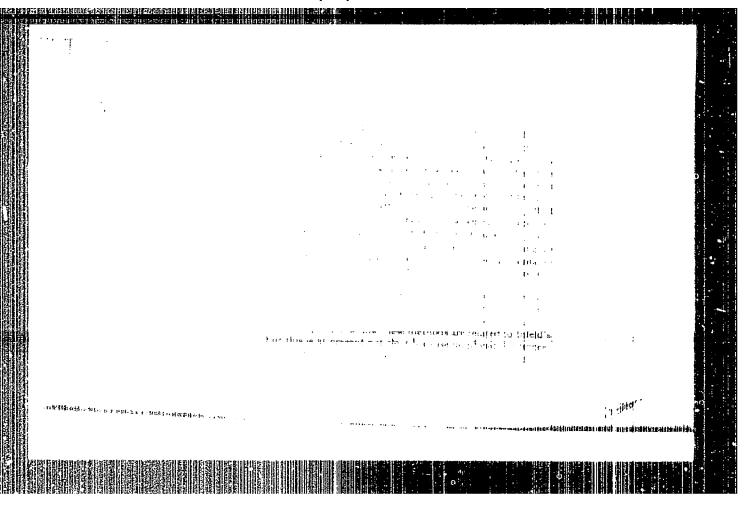
Role of the theory of relativity in science, p. 355. [POSTEFY FIZYKI, Warszawa, Vol.5, no. 3, 1954.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. b, Jan. 1955, Uncl.

INTELD, Leopold. To Albert Minstein on his 75th birthday. Biul. VFR no. 10: 245-246 Ag-0 '54. (NIRA 8:2) 1. Ghlen Ispolnitel'nego kemiteta Vesmirnoy federatsii nanchnyth rabetnikov. (Binstein, Albert, 1879 - 1955)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610015-3





INFELD, L.

From Copernicus to Einstein. p. 209. Vol. 1, no. 3, 1955. Warssawa

SERIA B: PRZYROD A NEOZYWIONA

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610015-3'

IMFELD, L.

Plebanski, J. Unitary transformations and spinor calculus. In English. p. 95. EULLETIN, Varsovie, Vol. 3, no. 2, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

INFEL'D, L.

Category : USSR/Theoretical Physics - Quantum Field Theory

B-6

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 2951

Author : Infel'd, L.

: Institute of Theoretical Physics, Polish Academy of Science Inst

Title : Equations of Motion for Linear Field Theories

Orig Pub : Byul. Pol'sk. AN, Otd. 3, 1955, 3, No 4, 211-214

Abstract : It is noted that the equations of motion result from the field equations if the latter are nonlinear: in the case of linear equations, this does not take place. However, it becomes possible to derive the equations of motion from the field equations if the equations of the gravitational field are added to the system of linear equations. For example, in the case of the electromagnetic or meson field, it is necessary to start out with a system consisting of the following equation

Run- +9xB R =-8Th (MaB+ExB)

and the equations of the electromagnetic or meson field. Here Mag and Egg are the tensor energy-momentum densities of the moving particles and R is the electromagnetic (or meson) field

Card : 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-Category: USSR/Theoretical Physics - Quantum Field Theory CIA-RDP86-00513R000618610015-3"

. Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 2951

The equations of motion are obtained for point masses in the following form:

(AT/AS) (MMV+EMV), d(3)x = 0

In the presence of only a single particle M assumes the form: $M''=M'' \in \mathcal{S}_{(3)}$, where m is the mass of the particle, $f^{5}=f^{5}(f^{0})$ are the spatial coordinates of the particle, and $\mathcal{S}_{(3)}$ is the three-dimensional Dirac function; the dot denotes differentiation with respect to $\xi = t$. In the cartesian coordinate system, it follows from (1) that $m = m \cdot \frac{dT}{dS}; \frac{dm}{dS} = -\frac{dF}{dS} \frac{d\xi_0}{dS} \int E_{s} \int d\zeta_0 d\zeta_0$

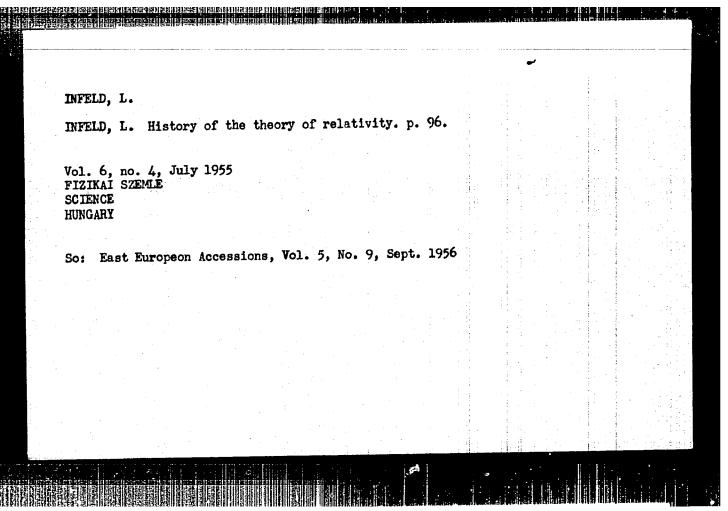
so that in general the invariant mass m_0 is a function of the intrinsic time s.

Card : 2/2

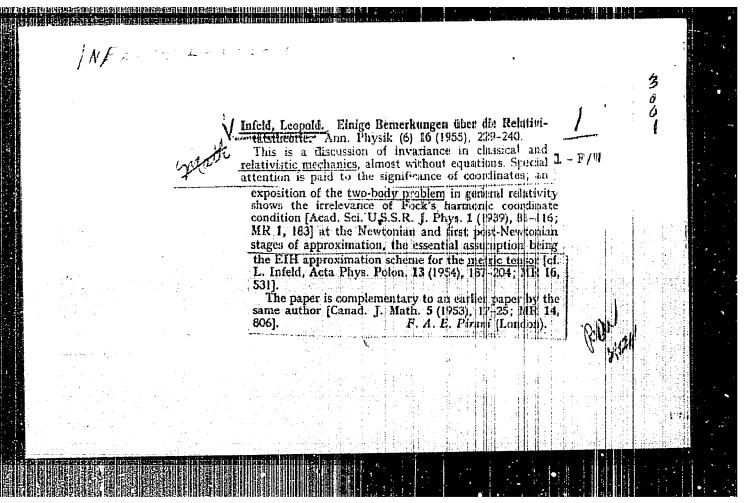
Equations of motion.

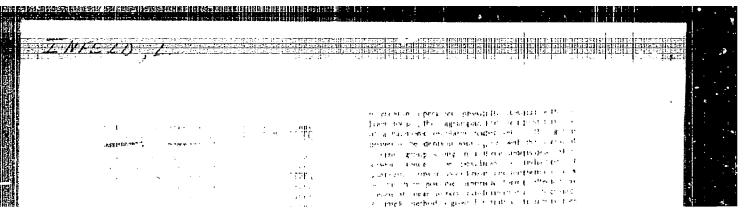
Lecture delivered on lith October, 1954 in Berlin during a celebration of the centenary of Riemann's work.

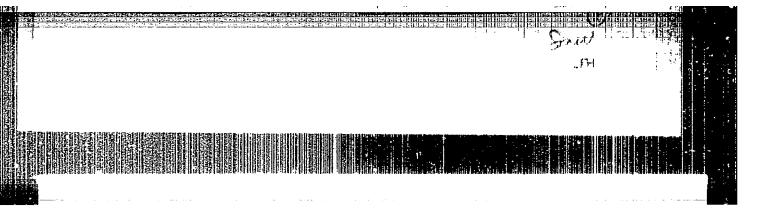
80: Progress in Physics, Poland, Vol. 6, #2, 1955, Unclassified.

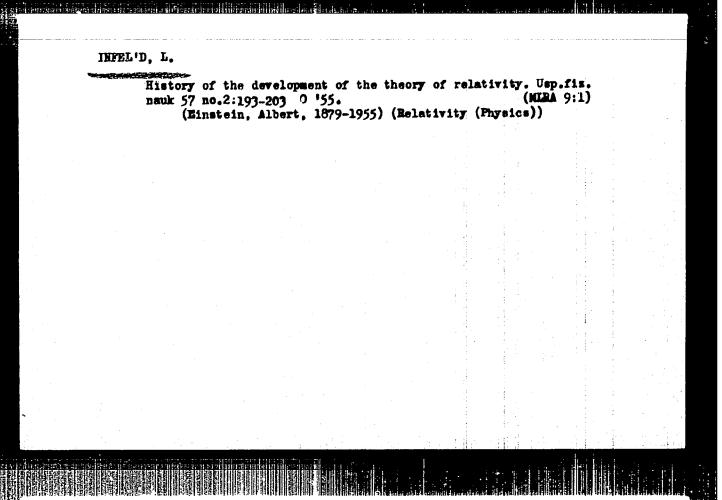


APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610015-3"









INFELD, LEOPOLD

Moje wspomnienia o Binsteinie. Warszawa, Iskry, 1956. 148 p.

SOURCE: East European Accession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

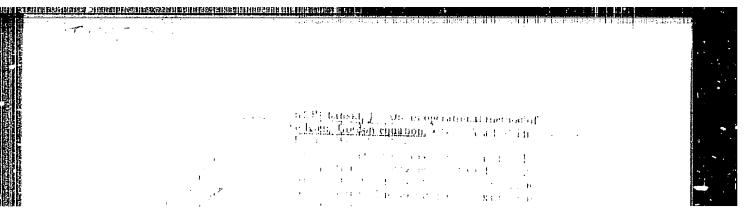
EINSTEIN, Alfred; LEVELD, Leccold: SINOBOV, S.C. [translator]; LESHKOVTSEV, J.A., redaktor; LIVSHITS, B.L., redaktor; TUMARKIMA, IW.A.téchnichéskiy redaktor

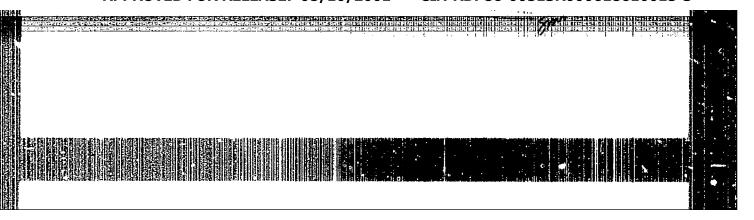
[The evolution of physics; the growth of ideas from early concepts to relativity and quanta. Translated from the English]

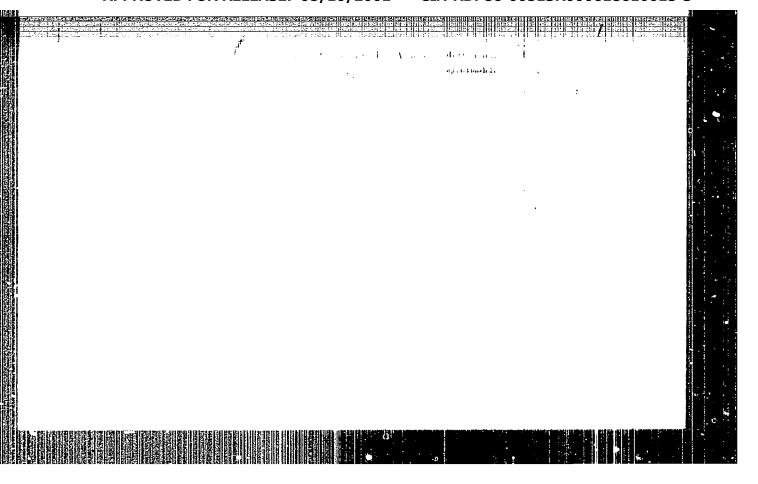
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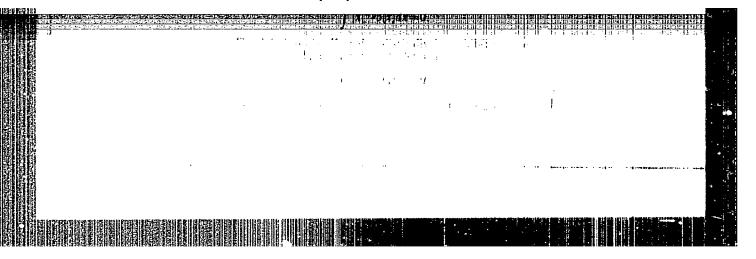
[Physics-History] (Relativity (Physics))

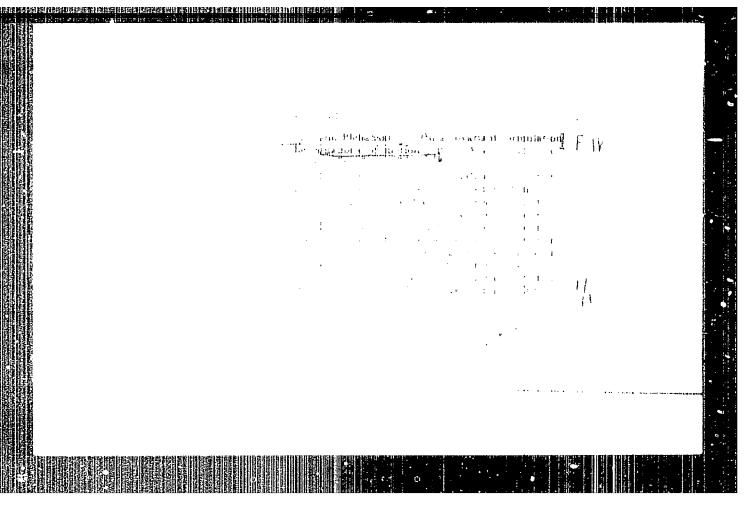
(Quantum theory)



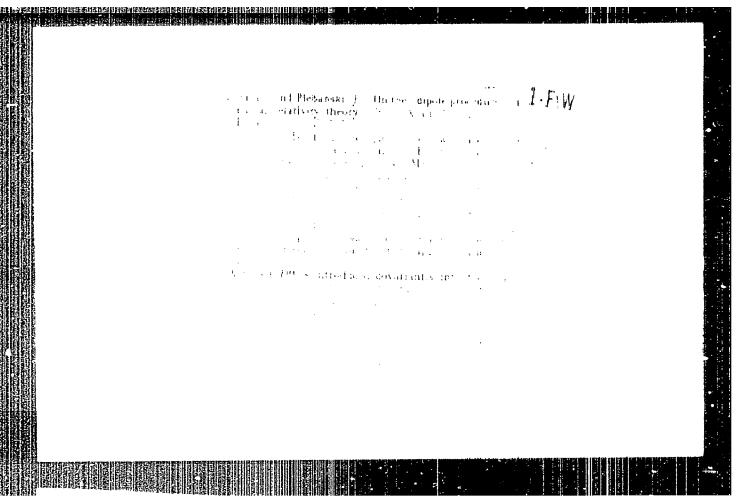


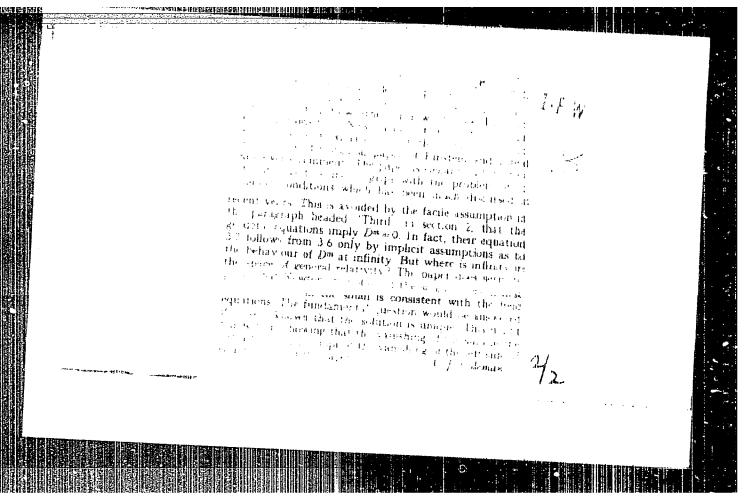


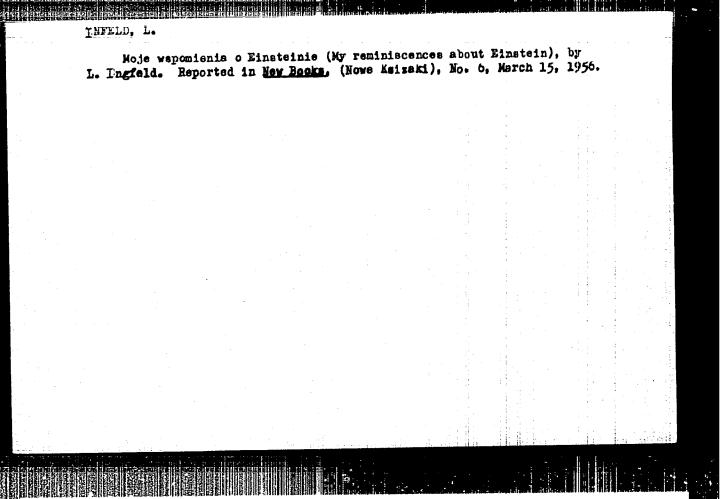


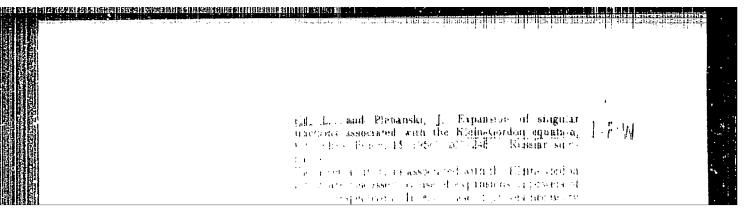


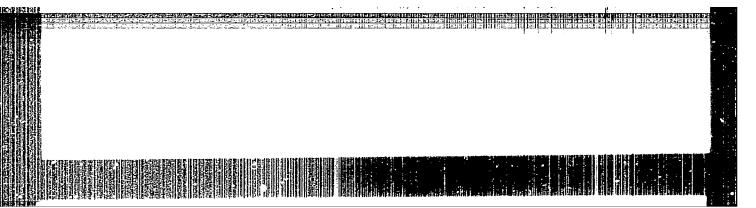
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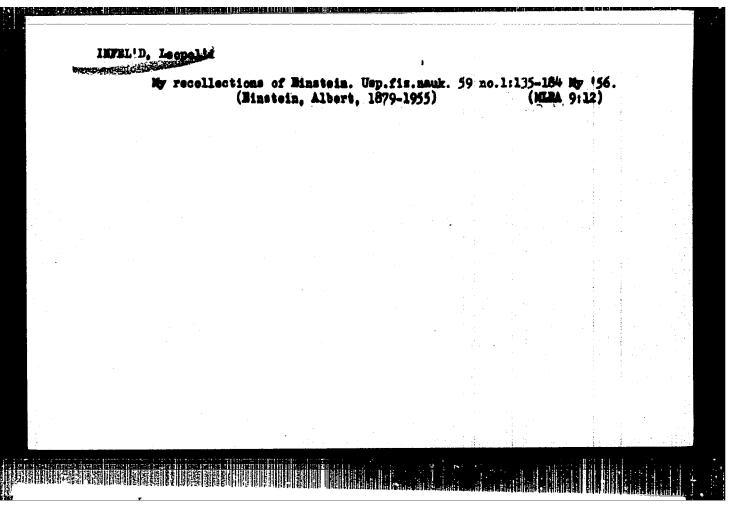












INFELD

POLAND/Theoretical Physics - General

B-1

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 9892

Author : Infeld L., Plebanski, J.

Inst : Institute of Physics, Polish Academy of Sciences;

sity, Warsaw, Poland.

: On a Further Modification of Dirac's -Functions Title

Orig Pub: Bull. Acad. polon. sci., 1957, Cl, 3, 5, No 1, 51-54

Abstract : Continuing their earlier work (Ref Zhur Fizika 1957, No 11, 27002), the authors introduce a three-dimensional (x) function of a new type, which satisfies the condition

(100 (1) x (x) [x] - = wp(p=1, x,.., k),

where 1 (0) is an arbitrary vicinity of the point $x=0, \omega_0=1$, and ω_p are pre-assigned numbers. An example of a 3 (x)-function of this tpye is given.

Card : 1/1

INFELD, L.

APPROVED FOR RELEASE 108/100/2001ed Fich RDP86-00513R000618610015-3

Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 5132

: Institute of Physics, Polish Academy of Sciences Infeld, Author : On the Lagrangian in Special Relativity Theory Inst

Title

Orig Pub : Bull. Akad. polon sci., 1957, Cl. 3,5, No 5, 491-495

Abstract : The relativistic equations of motion are derived from the variational principle. For this purpose the Lagrangian is chosen in the form $L^* = L(x_{, L}, x_{, L}) + (1/2) \chi(x_{, L}) / ds$.

1), where χ is a certain scalar function, $\chi'\mu = dx_{, L}/ds$.

By varying the action integral independently with respect to xy and Y and then eliminating Y it is possible to obtain the following Euler-Lagrange equations:

(dl) - (dl) - (dl xpx) + (lx) = 0

: 1/2 Card

PHASE I BOOK EXPLOITATION

POL/4355

Polskie towarzystwo matematyczne

Prace Matematyczne, Seria I, II, 2 (Mathematical Transactions, Series I, vol. II.2) Warszawa, Państwowe wyd-wo naukowe, 1958. 195 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: WZadysław Orlicz (Chief Ed.), Stefan Drobot (Deputy Chief Ed.), Adam Bielecki, Stanisław Hartman, Jan Mikusiński, Roman Sikorski, Marceli Stark, Hanna Szmuszkowicz, Krzysztof Tatarkiewicz, and Wodzimierz Wrona.

PURPOSE: This book is intended for mathematicians

COVERAGE: The contains 14 articles dealing with algebra, the theory of games, analysis, geometry, and two general mathematical topics. Summaries appear in Russian and English. No personalities are mentioned. References accompany individual articles.

Card 1/3

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INFELD, L.

My reminiscences of Wladyslaw Natanson.

p. 3. (KOSMOS. SERIA B: PRZYWODA NIEOZYWIONA.) (Warszawa, Poland) Vol. 4, no. 1, 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

INFELD, L.

The genealogy of Sputnik.

p. 9. (KOSMOS. SERIA B: PRZYWODA NIEOZYWIONA.) (Warszawa, Poland) Vol. 4, no. 1, 1958

SO: Monthly Index of East European Accession (LEAI) IC Vol. 7, No. 5, 1958

INFELD, L.

"Planck's hundredth anniversary"

p. 205 (Kosmos, Seria B; Przyroda Nieczywiona, Journal on natural sciences with the exception of biology issued by the Copernicus Society of Polish Naturalists, Vol. 4, no. 3, 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.

POLAND/Nuclear Physics - General Problems.

C

Abs Jour

: Ref Zhur Fizika, No 2, 1960, 2726

Author

Infeld, Leopold

Inst

Title

: Impressions of the Second International Conference on

Atomic Energy in Geneva

Orig Pub

: Kosmos (Polska), 1958, B4, No 4, 273-275

Abstract

No abstract.

Card 1/1

POLAND/Nuclear Physics - Physical Base of Nuclear and APPROVED FOR RELEASE: 08/10/2001

Thermonuclear Technology.

Abs Jour

: Ref Zhur Fizika, No 1, 1960, 614

Author

Infeld, Leopold

Inst

: Impressions of the Second Conference on Atomic

Title Energy in Geneva

Orig Pub

Nukleonika, 1959, 4, No 1, 1-4

Abstract

: No abstract.

INFELD, L. A new form of the geodesic line equation. Bul Ac Pol mat 8 no.8: 559-561 '60. 1. Institute of Physics, University, Warsaw and Institute of Physics, Polish Academy of Sciences. (Geodesy) (Equations)

INFELD, L.

SURMAME (in caps); Given Names

Country:

Poland

Academic Degrees: Not stated

Institute of Physics (Instytut Fizyki), Polish

Affiliation:

Academy of Sciences (Polska Akademja Nauk)

Source:

Warsaw, Bulletin de l'Académie Polonaise des Sciences,

Série des Sciences Mathématiques, Astronomiques et

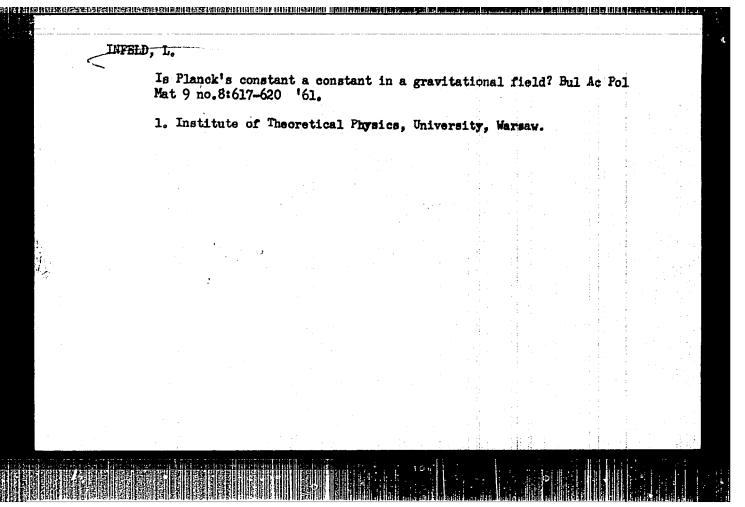
Physiques, Vol 9, No 2, Feb 61, pp 93-97.

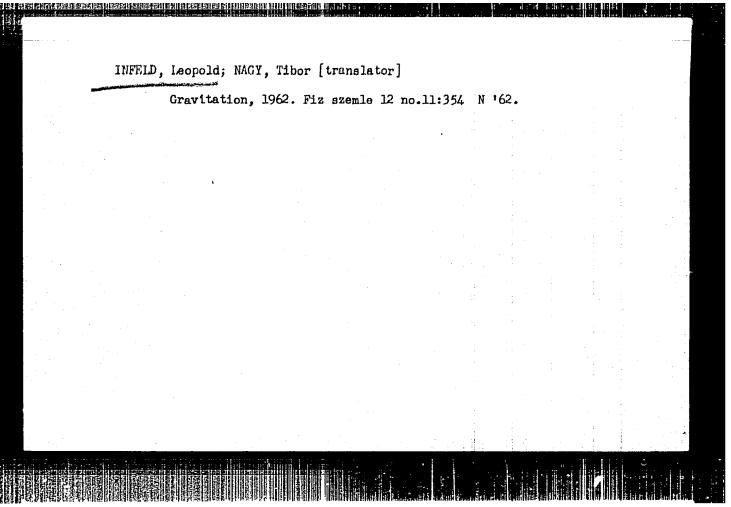
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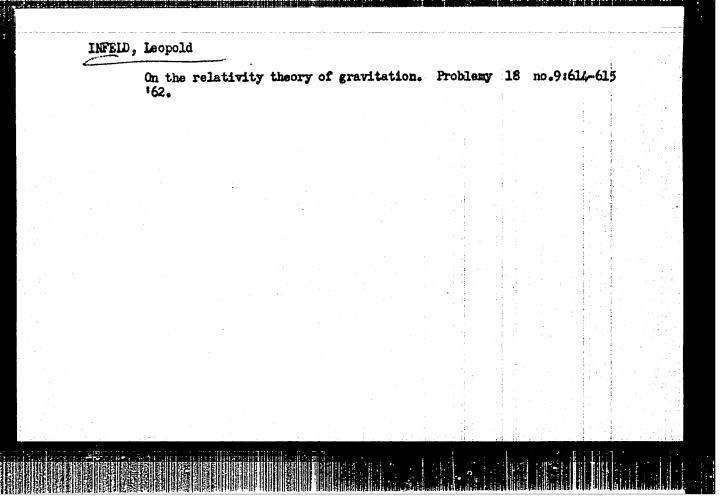
"The EIH and the k-Approximation Methods."

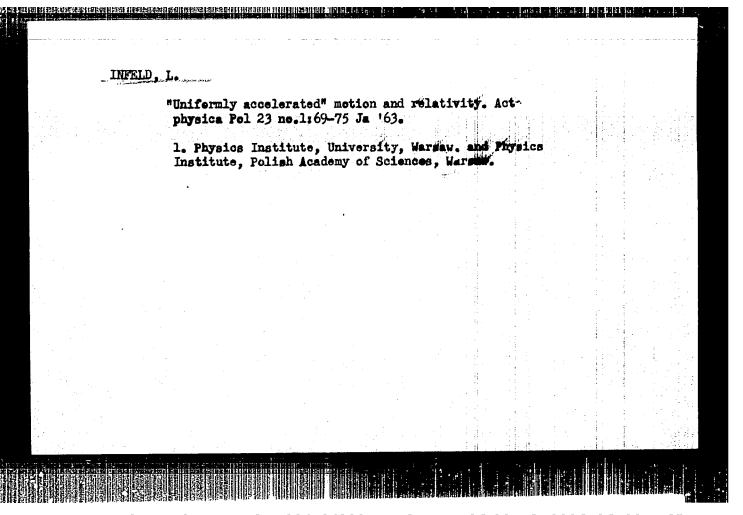
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INFELD, L.

The er ations of s motion of a radiating electron and its Lagrangian. Acta phys Hung 17 no.1/2:7-14 '64.

1. Institute for Theoretical Physics, Warsaw University, Warsaw, Poland.

Infelifiern, A., (Engr-Lt Col.)

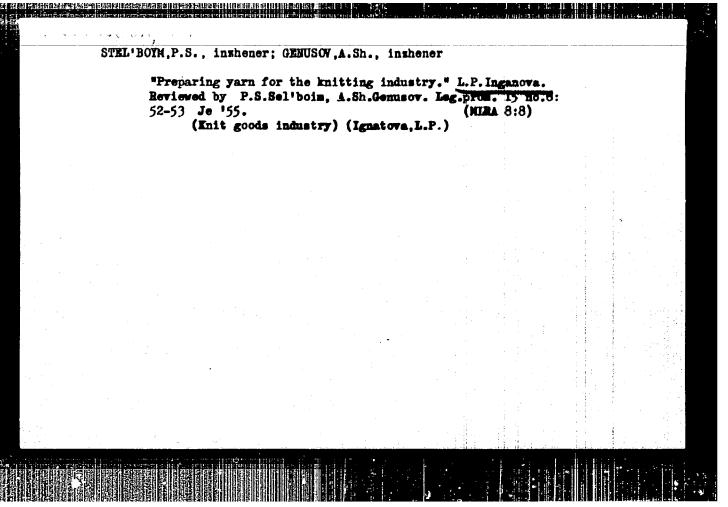
Coauthor with Engr-Lt Col. I. CHEPELEVSKIY* of article, "Tent for Repairing Equipment," concerning the construction of a tent to be used in the field when repairing equipment. (Tankist, Moscow, No 4, Apr. 1954)

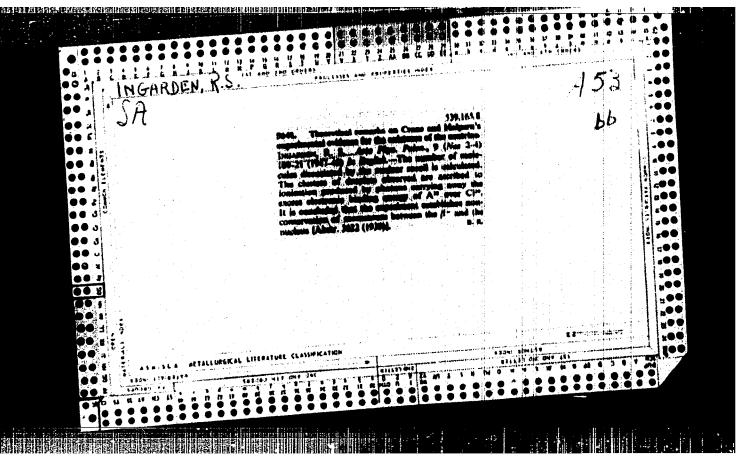
SO: SUM Nc 239, 13 Oct. 1954

INCAMDZHANOV, N.I.; KONTUASHVILI, B.Ya., red.; OSIFENKO, V., tekhn. red.

[Practical manual on needle therapy] Prakticheskoe rukovodstvo po igloterapii. Tashkent, Gos. med. izd-vo M-va zdravookhraneniia UzSSR, 1960. 138 p.

(ACUFUNCTURE)



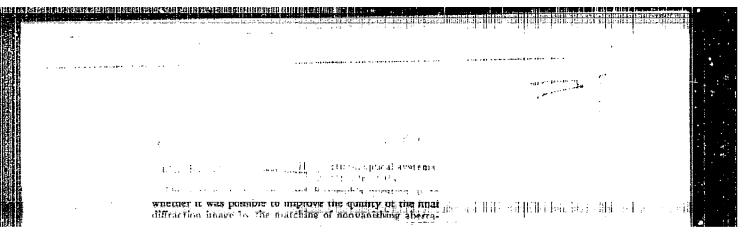


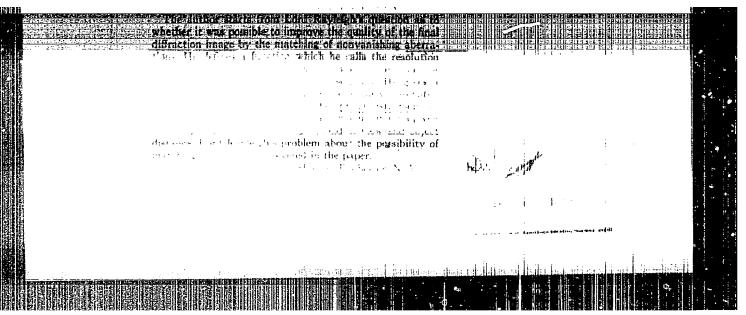
INGARDEN, R.S.

Equations of motion and field equations in five-dimensional unified relativity theory. Dokl. Akad. Nauk SSSR 88, No.5, 773-6 '53. (MLRA 6:2) (PA 56 no.671:7416 '53)

States that in the theory of relativity there exist two different methods for deriving the eqs of motion from the field eqs; the method of Einstein and Infeld on the one hand and the method of Fok on the other. Attempts to show that these two views can agree to a certain extent in a 5-dimensional "unified" theory of relativity, in which a new point of view is given to the problem.

Presented by Acad V. A. Fok 20 Dec 52. Indebted to V.A.Fok for his helpful remarks made at the confirmace of Polish physicists at Spala.





LN9ARDEN K.S.
POLAND/Optics - Optical Technology

K-4

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 9157

Author

: Ingarden, R.S., Okhman, G.

Inst

: Mathematics Institute, Academy of Sciences, Warsaw,

Title

: Optimum Optical Systems

Orig Pub : Syul. Pol'skoy AN, otd. 3, 1954, 2, No 6, 275-280

Abstract : Determination of a criterion that characterizes a system with the best image quality. Systems are considered with urial symmetry, consisting of homogeneous and isotropic media. For the sake of simplicity, non-self-illuminating objects are taken, and the investigation is carried out in the meridional plane. The action of an optical system is represented, using Mandel'shtam's example, as an integral equation that transforms the amplitude in the plane of the object into an amplitude in the plane of the image, the kernel of which depends only on the optical system. It is shown that an optical system having no aberration is not ideal from the point of view of the wave theory of light. Only a system satisfying definite conditions will reproduce the object with absolute similarity.

Card

: 1/2

INCARDEN, R.

Bulletin - Vol. 2, no. 7, 1954.

Embedding Finsler spaces in a Minkowski space. p. 305.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.